

BUILDING SAFETY DEPARTMENT

January (Revised 2003)

WOOD DECKS

ONE & TWO FAMILY DWELLING

NOTE: (APPENDIX M ATTACHED)

1. Top view with dimensions.
2. Front and side view with dimensions.
3. Type of material: Treated Wood Other _____
4. Pier and footing information shall include type of material and location on plans:
 Type of material: Precast Block Cast-in-Place Concrete
 Footing: Length_____, Width_____, Depth_____.
 Bottom of footing minimum 18 inches below grade, for frost line.
5. How will deck be attached to the house, select one:
 Treated wood band with metal flashing to house band. (Aluminum flashing is not permitted).
 Treated wood band to brick veneer structure.

 Size of bolts into house _____ & _____ spacing of bolts.

 Size of nails into house _____ & _____ spacing of nails.
6. How will the floor joists be supported / attached: Joist Hanger Ledger Strip
7. Posts size: 6X6 4X4 length of posts above ground _____ feet / inches.
8. Outer bands / girder: two -2 inch by _____ inch, (show location on plans).
9. Floor decking thickness: 1-inch 5/4-inch 2-inch
10. How will Deck be braced, see Appendix M, #8, (select one):
 Deck is less than 4 feet above grade and is attached to the house, no additional bracing installed
 4x4 knee braces on each post.
 Embedding posts per Appendix M, #8 (C).
 2" x 6" diagonal cross braces on posts.
11. Will deck have stairs: YES NO
 Handrails minimum 30 inches and maximum 38 inches high.
 Guardrails minimum 36 inches high. Pickets 4 inch maximum clear space between pickets.
12. Will new structure have a roof: YES NO
 If YES provide:
 Location and size of columns.
 Roof framing plan, include rafter size and spacing.
 Collar ties and ridge board size.
 Tie-in detail at house wall and house roof.

NOTE: If adding a porch roof or enclosing an existing deck provide as much of the above information about the existing deck and footings as possible. For adding a roof you must have footing information.

Maximum Floor Joist Spans (No. 2 Southern Pine 40 psf live load, 10 psf dead load)

Joist Size	12" o.c.	16" o.c.	24" o.c.
2 x 6	10'-4"	9'-5"	7'-10"
2 x 8	13'-8"	12'-5"	10'-2"
2 x 10	17'-5"	15'-10"	13'-1"
2 x 12	21'-2"	18'-10"	15'-5"

Maximum Beam Span* (No. 2 Southern Pine for 40 psf)

Tributary Load Width** (feet)														
Beam Size	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	
(2) 2x6	7'	6'												
(2) 2x8	9'	8'	7'	7'	6'	6'								
(2) 2x10	11'	10'	9'	8'	8'	7'	7'	6'	6'	6'	6'			
(3) 2x8	12'	11'	10'	9'	8'	8'	7'	7'	7'	6'	6'	6'		
(2) 2x12	13'	12'	10'	10'	9'	8'	8'	7'	7'	7'	6'	6'	6'	
(3) 2x10	15'	13'	12'	11'	10'	10'	9'	9'	8'	8'	8'	7'	7'	
(3) 2x12	16'	15'	14'	13'	12'	11'	11'	10'	10'	9'	9'	8'	8'	

* Spans are distances in feet between posts or supports.

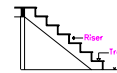
** Tributary Load Width is determined as half the spacing between the beam and the house connection, or between the beam and an adjacent parallel beam, and shall include the distance of any deck overhang.

Cantilevered Deck Joists: Floor joists for exterior decks may be cantilevered a maximum of 24" with the following conditions:

- 2" x 10" s.y.p. pressure treated joists spaced 16" on center.
- 2" nominal or less wood plank floor.
- No stair stringers or platforms supported by the cantilever.
- Framing is to be at a right angle to cantilever support girder.
- No roof load on the cantilevered floor section.

Guardrails: Decks located more than 30 inches above grade shall have guards not less than 36 inches in height. Open sides of stairs with a rise of more than 30 inches above the floor or grade below shall have guards not less than 30 inches in height. Horizontal spacing between the vertical pickets in guardrails shall be a maximum of 4 inches between members.

Stairway Treads and Risers: The maximum riser height shall be 8 1/4 inches. The greatest riser height within any flight shall be 11 inches without nosing. The greatest riser height within any flight shall be 11 inches without nosing. The greatest tread depth within any flight shall be 11 inches without nosing. The greatest tread depth within any flight shall be 11 inches without nosing. The bottom riser of an exterior stair, the height of the adjacent risers.



Stairway Handrails: Handrails shall be a minimum of 30" high, and provided on at least one side of stairways. Handrails shall be continuous the full length of the stairs with four or more risers from a point directly above the top riser of a flight to a point directly above the lowest riser of the flight. Edges shall have a minimum radius of 1/8 inch. Exterior handrails shall not be more than 3-1/2 inches in cross-sectional dimension. When using a guardrail design to form a stairway handrail where the caprail functions as the stairway handrail, the caprail may be a 2x4 in the horizontal position. Handrails adjacent to a wall shall have a space of not less than 1.5 inches between the wall and the handrail.

Open Riser Stairs: When the total rise of the stairs is greater than 30 inches, open risers are not permitted.